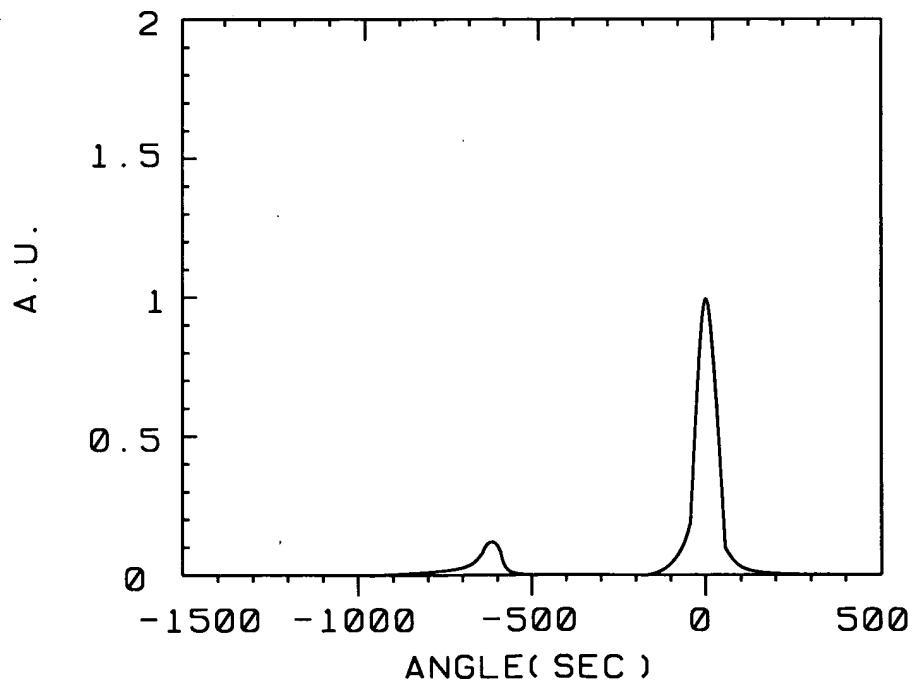
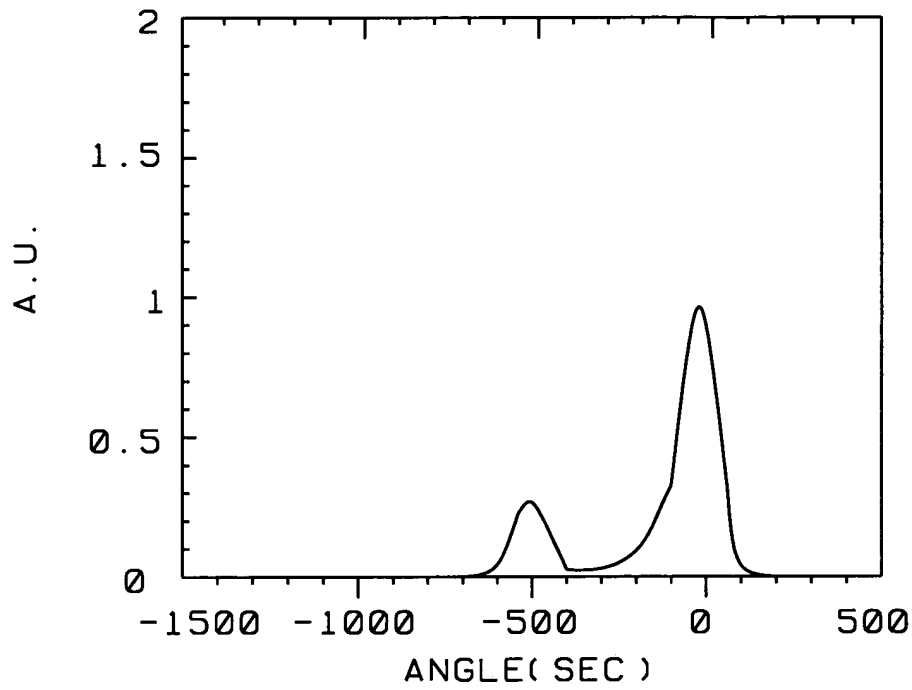


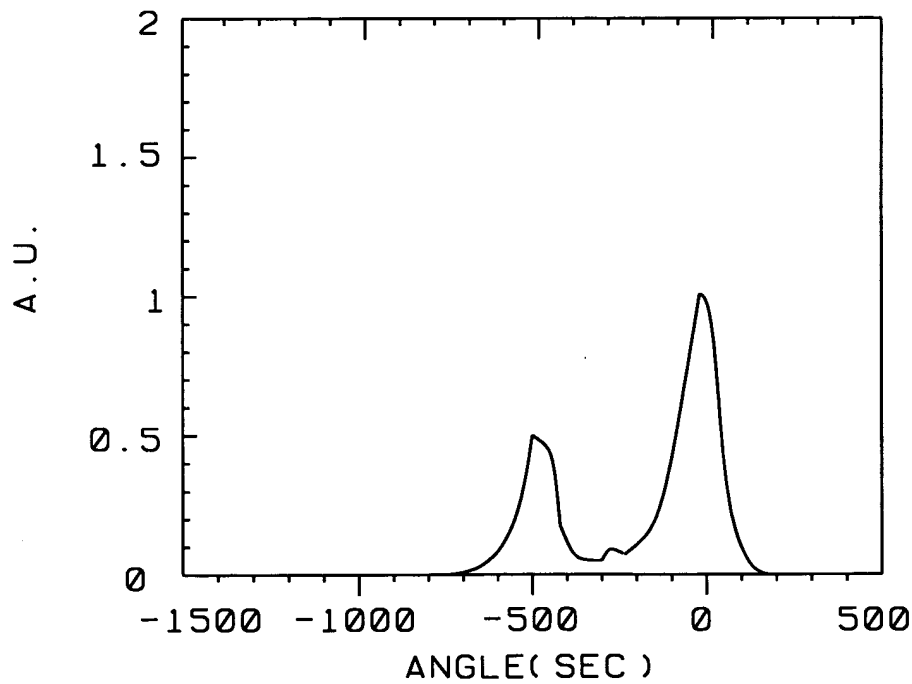
*FIG. 1A - Prior Art*



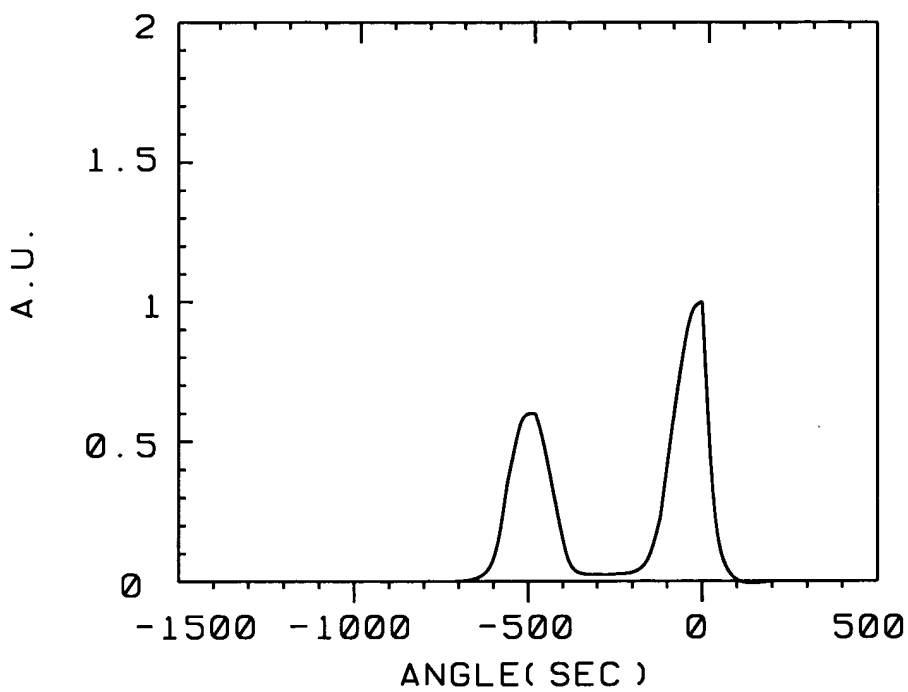
*FIG. 1B - Prior Art*



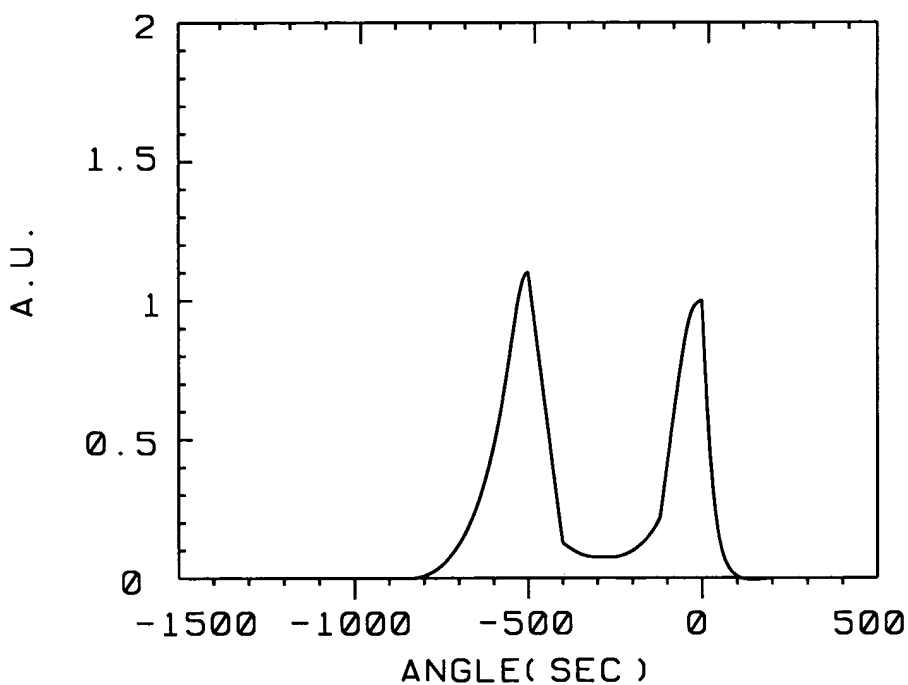
*FIG. 1C - Prior Art*



*FIG. 1D - Prior Art*

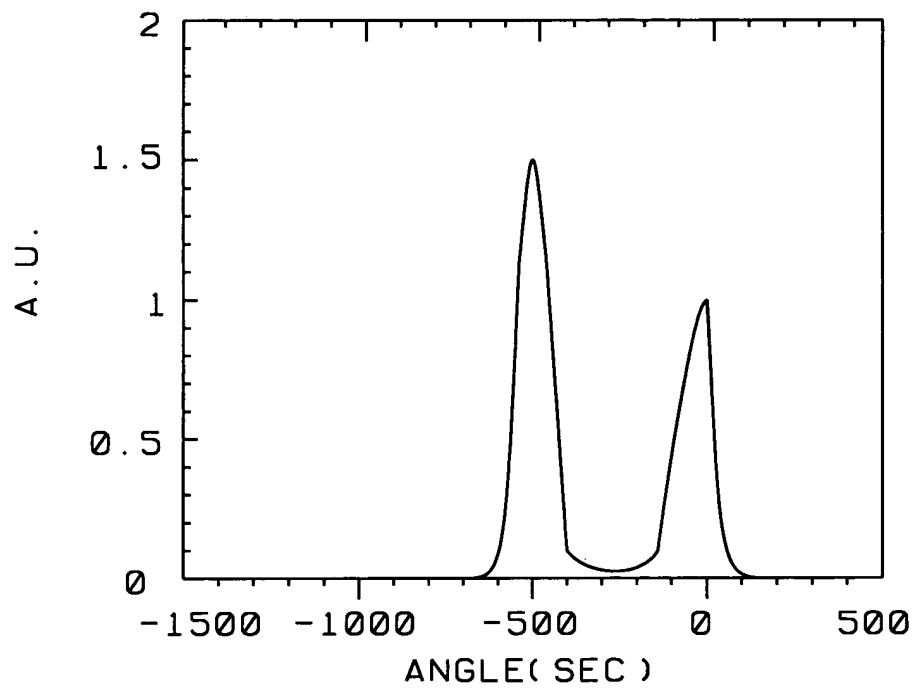


*FIG. 1E - Prior Art*



*FIG. 1F - Prior Art*

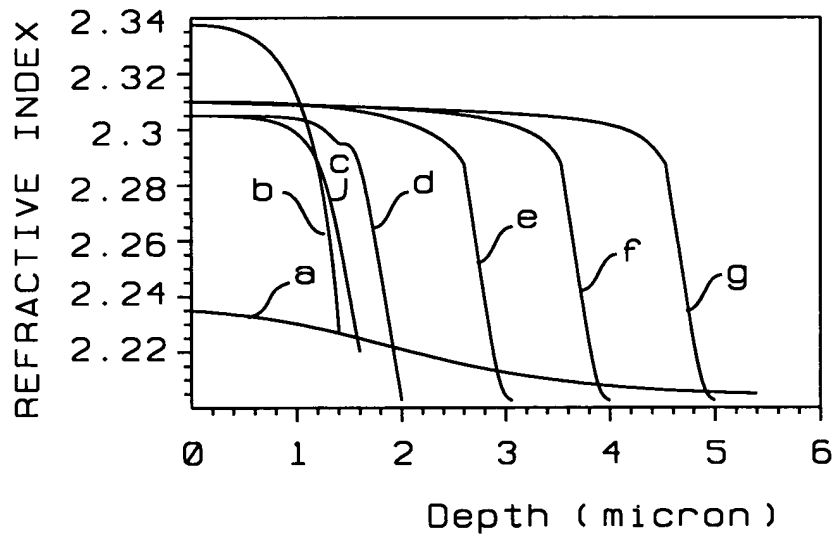
20250404



*FIG. 1G - Prior Art*

SURFACE  
EXTRAORDINARY INDEX CHANGE

SAMPLE	$dn_e$
a	0.0321
b	0.1351
c	0.1009
d	0.1006
e	0.1045
f	0.1045
g	0.1053

*FIG. 2 - Prior Art**FIG. 3 - Prior Art*

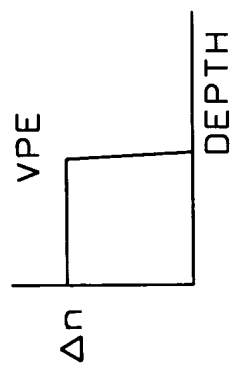


FIG. 4A

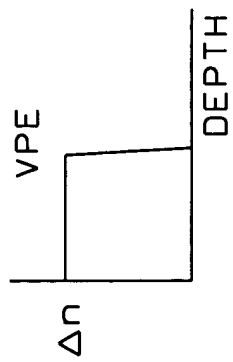


FIG. 5A

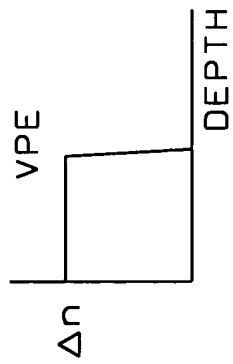


FIG. 6A

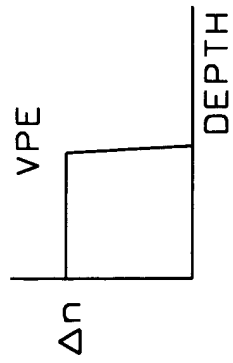


FIG. 7A

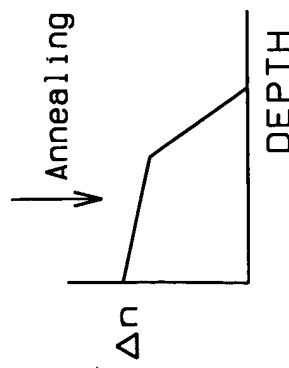


FIG. 4B

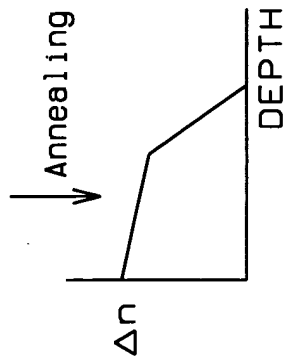


FIG. 5B

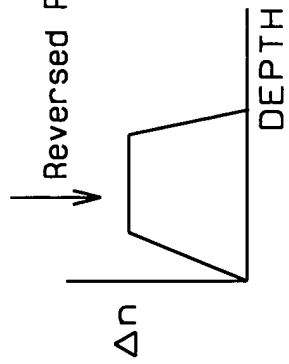


FIG. 6B

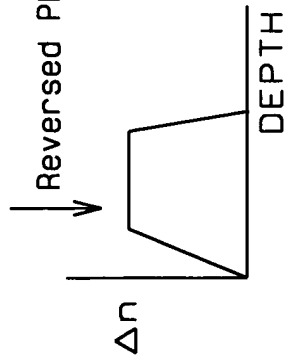


FIG. 7B

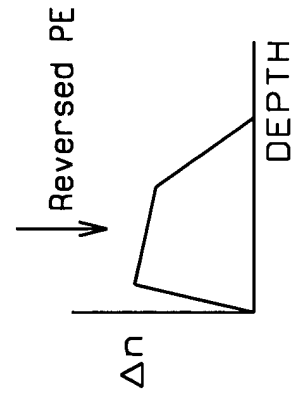


FIG. 5C

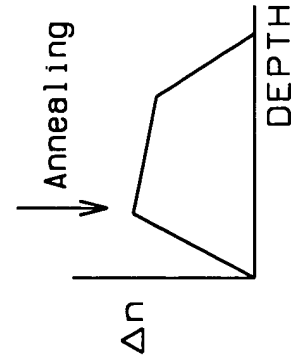


FIG. 7C

## A-VPE CHANNEL WAVEGUIDE

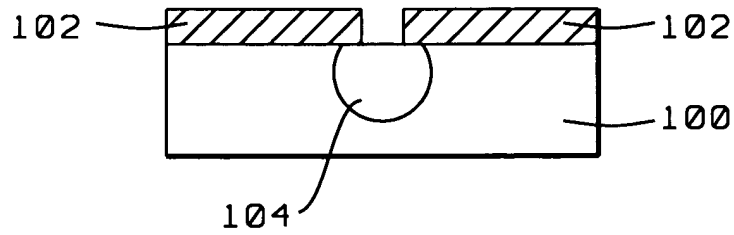


FIG. 8A

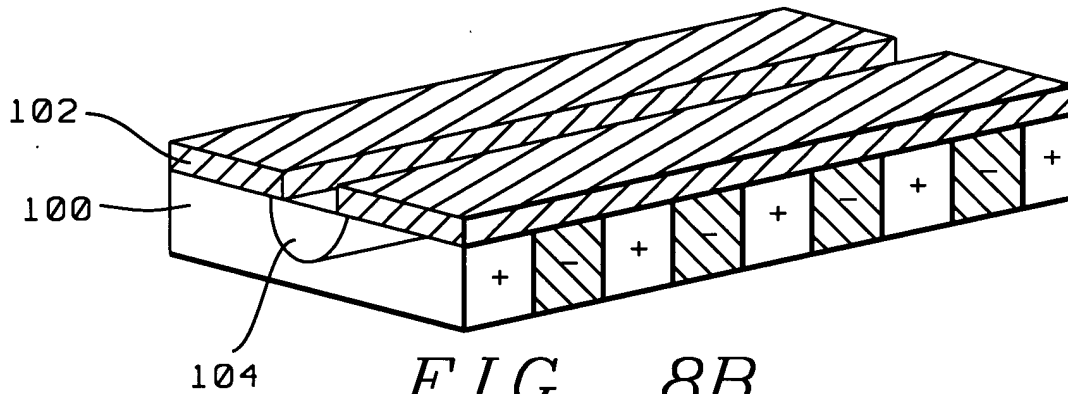


FIG. 8B

## R-VPE CHANNEL WAVEGUIDE

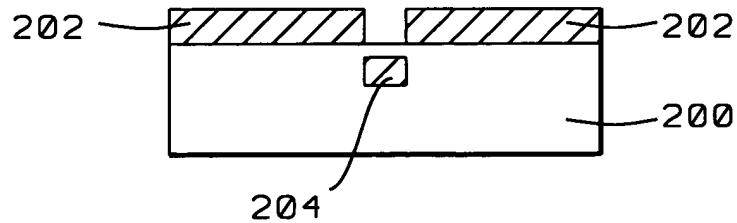


FIG. 8C

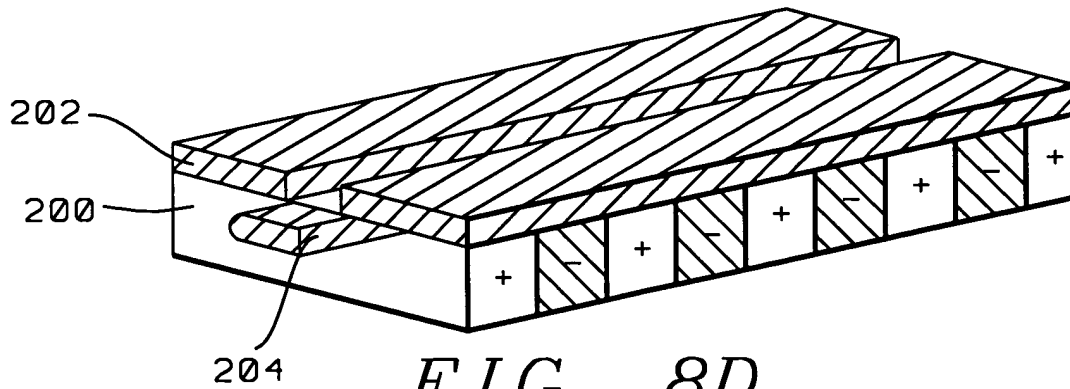
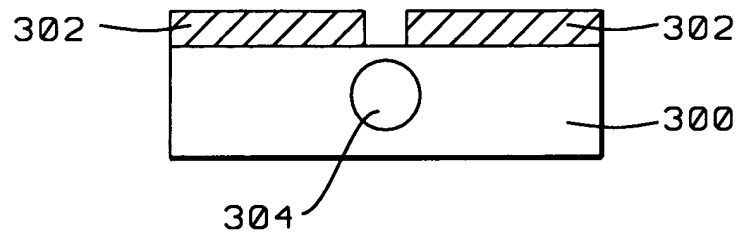
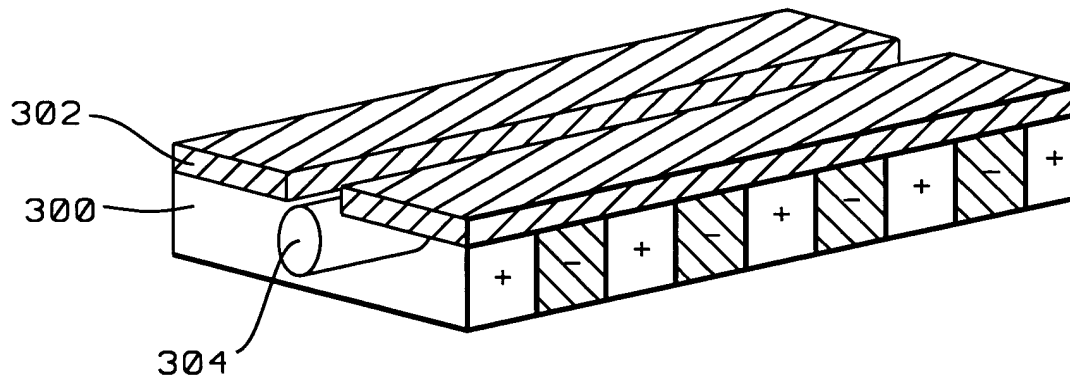
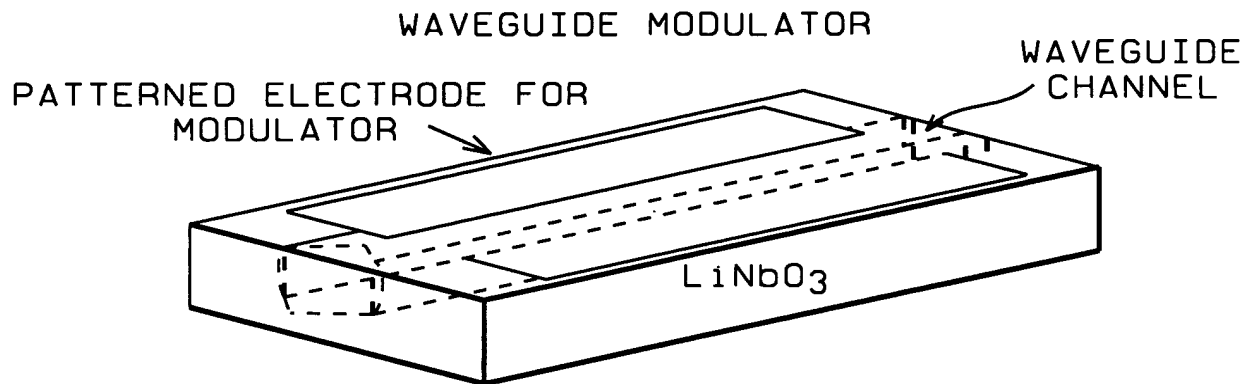
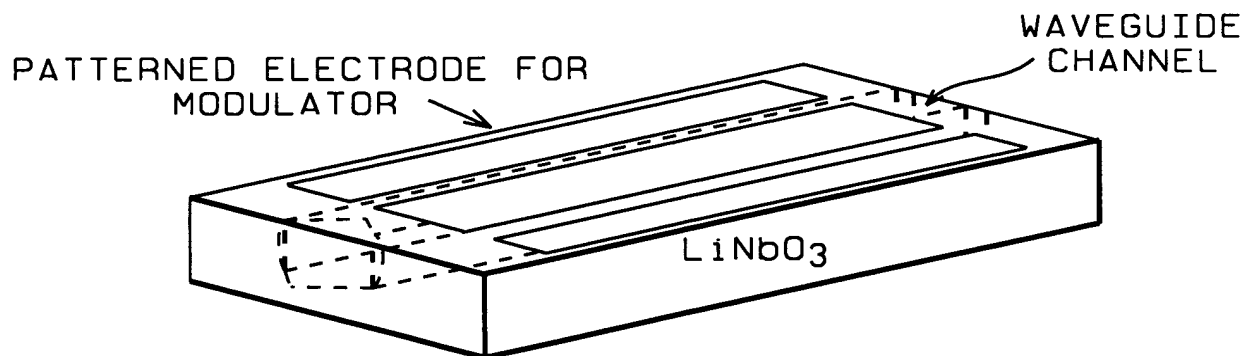


FIG. 8D

## AR-VPE OR RA-VPE CHANNEL WAVEGUIDE

*FIG. 8E**FIG. 8F*



*FIG. 9A**FIG. 9B*

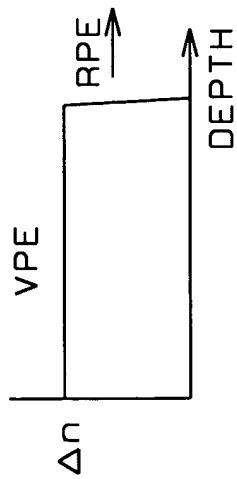


FIG. 10A

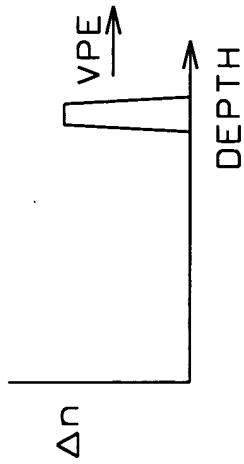


FIG. 10B

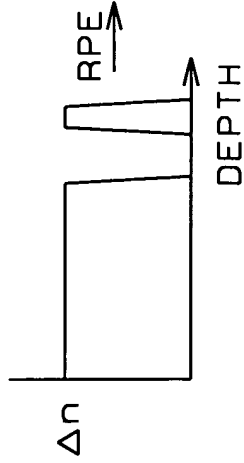


FIG. 10C

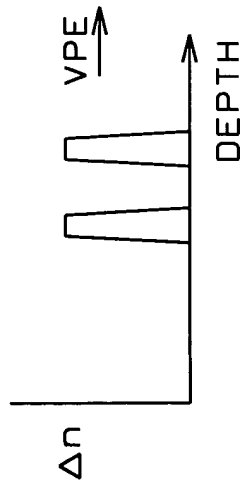


FIG. 10D



FIG. 10E

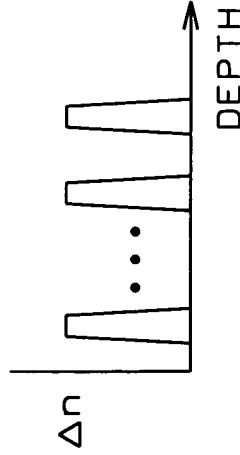


FIG. 10F

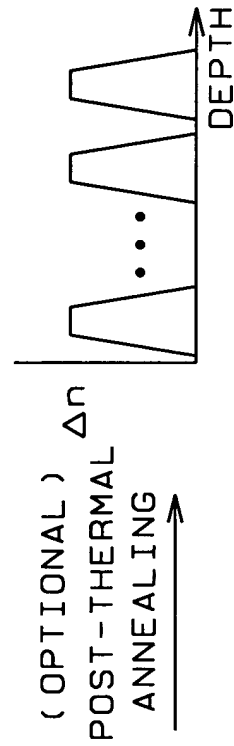
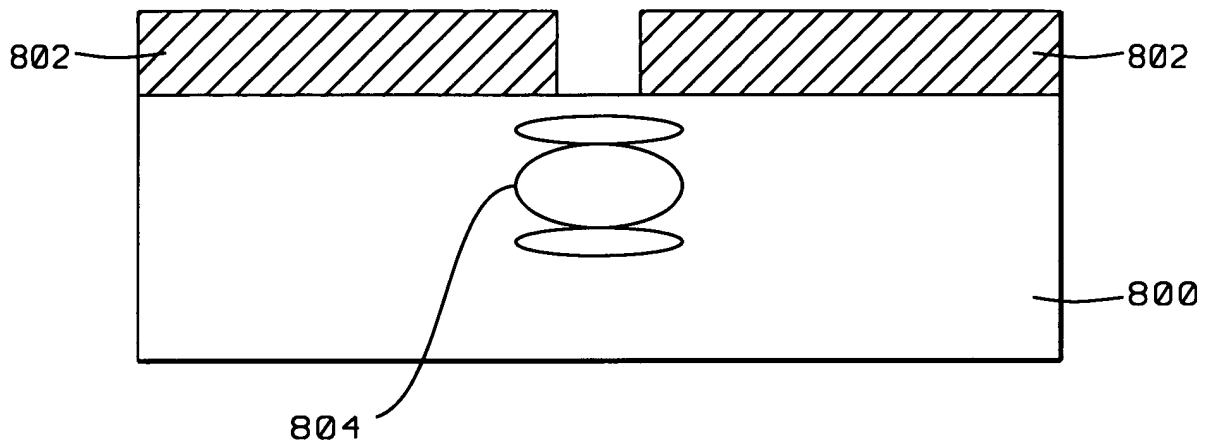
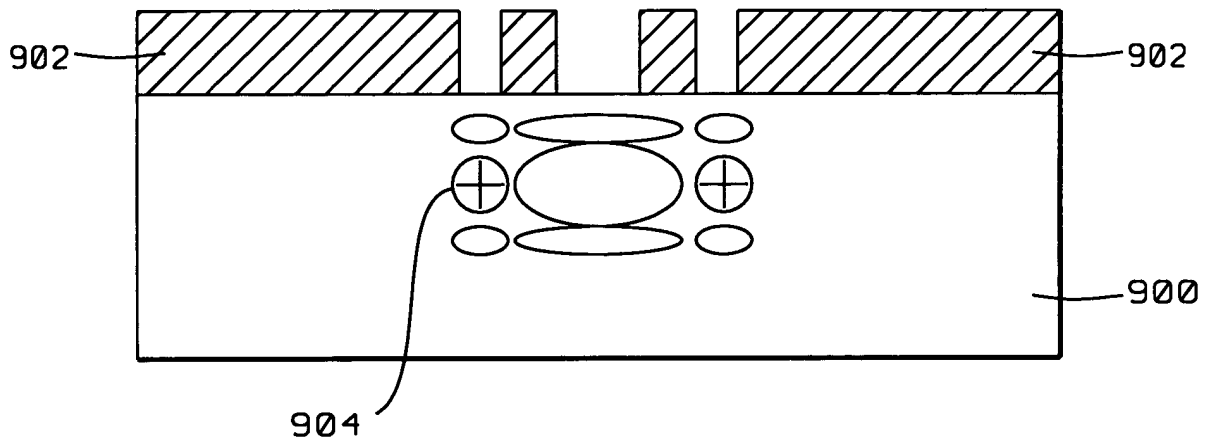


FIG. 10G

(OPTIONAL) POST-THERMAL ANNEALING

*FIG. 11A**FIG. 11B*